

# MIXER TEMPERATURE CONTROL



## *MXR Series Intensive Mixer Temperature Control Units*

BTU MXR Series Intensive Mixer Temperature Control Systems offer multi-zone fluid heat transfer capability for high velocity, controlled-temperature water to mixer sides, rotor and drop door.

The MXR Series is designed to withstand demanding mixing-room atmospheres and is available in both direct-injection and closed-loop operation. This series is designed for industrial applications requiring fluid temperatures up to 250°F.

Budzar also designs and manufactures specialized equipment for non-standard applications. Our engineers have extensive experience in process chilling and heating applications for such industries as: chemical, petroleum, plastics rubber, paper, power, steel, food, and pharmaceutical. We take the time to understand your current and future needs and design a solution targeted at high quality and fast payback.



engineering  
**PRECISION**

### **EXCELLENT RETURN ON INVESTMENT**

- Each Budzar unit is designed to maximize the productivity of your process. Budzar quality and reliability provide excellent value for each dollar invested
- Consistent temperature control results in more uniform batch characteristics, scrap reduction and elimination of the "first-batch" effect

### **LOW-COST, SIMPLE OPERATION AND MAINTENANCE**

- Solid-state, microprocessor-based controller and pneumatic modulating control valves provide reliable accurate operation without cycling
- Close-coupled centrifugal pumps with high temperature seals and TEFC motors
- "At-a-glance" digital read-out controller and function indicator lights display important operating conditions
- Electric heaters or shell and "U" tube heat exchangers for heating with steam are available for fast start-up and flexibility
- All electrical components are housed in a NEMA 12 dust-tight enclosure

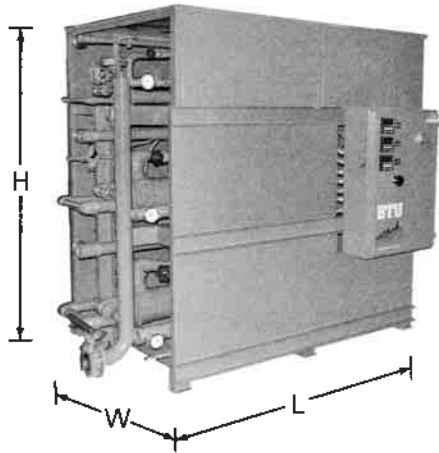
### **QUICK AND EASY INSTALLATION**

- Single-point connections for all utilities
- All units are factory tested prior to shipment



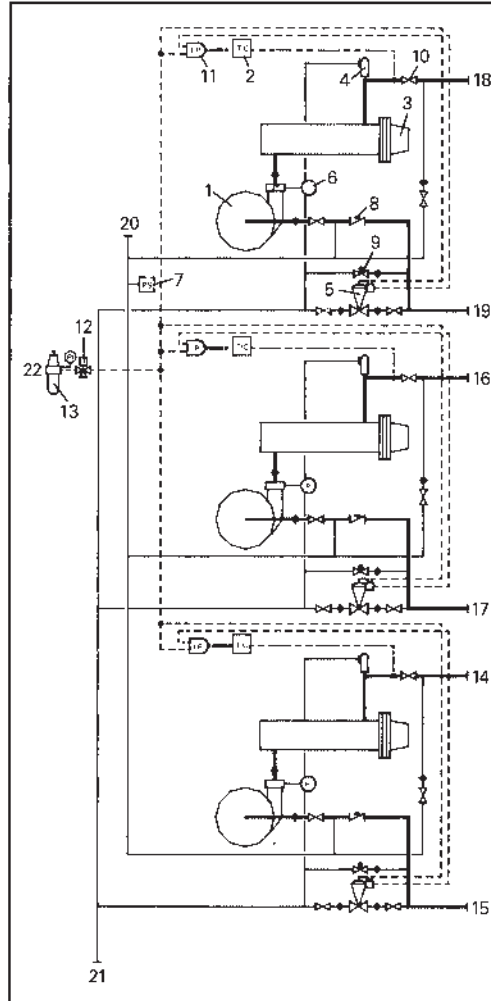
process  
**TEMPERATURE**  
control

# MIXER TEMPERATURE CONTROL



Model MXR-15 complete with direct injection cooling (closed loop optional). Protective sheet metal is optional. NEMA 12 enclosure is standard and all units are designed with independent wire runs.

## DIRECT INJECTION



1. Pump and Motor Assembly
2. Temperature Controller
3. Electric Heater (Opt.)
4. Relief Valve
5. Cooling Control Valve
6. Pressure Gauge
7. Pressure Switch
8. Check Valve
9. Globe Valve
10. Isolation Valve
11. Pressure Transducer
12. Air Solenoid Valve
13. Air Filter/Regulator
14. To Sides
15. From Sides
16. To Rotors
17. From Rotors
18. To Door
19. From Door
20. Cooling Water Supply
21. Cooling Water Drain
22. Instrument Air Supply

## MXR SERIES INTENSIVE MIXER TEMPERATURE CONTROL UNITS

Model	Optional Heating kW	Flow GPM Side Rotor Door	Steam Heat Sq. Ft.	HP	FLA@ 460V Elec/Steam	Approx. Dimensions (L x W x H) <sup>4</sup>	Weight (LBS)	Optional Closed Loop Cooling
MXR- 1	9 • 4.5 • 4.5	60 • 40 • 20	8.1 • 3.7 • 3.7	3 • 1.5 • 1.5	32.0 9.5	54 x 39 x 84	1200	61 • 48 • 20.4
MXR- 9	9 • 9 • 4.5	90 • 60 • 20	8.1 • 8.1 • 3.7	5 • 3 • 1.5	43.0 15.0	54 x 39 x 84	1425	88 • 61 • 20
MXR- 11	12 • 9 • 4.5	120 • 85 • 20	15 • 8.1 • 3.7	7.5 • 5 • 1.5	53.5 21.5	54 x 39 x 84	1550	131 • 88 • 20
MXR- 15	15 • 12 • 4.5	150 • 120 • 30	15 • 15 • 3.7	10 • 7.5 • 3	69.5 30.0	60 x 48 x 105	1800	153 • 131 • 38
MXR- 27	18 • 15 • 9	180 • 150 • 30	15 • 15 • 3.7	15 • 10 • 3	87.0 40.0	60 x 48 x 105	2080	207 • 153 • 38

- 1 - System design pressure- 125 PSI
- 2 - Maximum steam pressure- 60PSI
- 3 - Maximum cooling water pressure- 60 PSI

- 4 - Steam units add 6" to width
- 5 - Direct injection standard

Budzar Industries reserves the right to discontinue or change specifications without notice, consistent with sound engineering practice and current industrial standards.



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